

Appendix A: Variables Used in analyses & NAES question wording

Variable Name	Source	Coding
<i>Republican</i>	<i>The Almanac of American Politics</i>	0 Democrat 1 Republican
<i>Legislator Liberalism</i>	<i>DW-Nominate Scores</i> for Senate accessed on 4-26-11 from http://voteview.com/dwnomin.htm	First Dimension Coordinate
<i>Legislator Liberalism</i>	<i>W-Nominate Scores</i> for Senate, estimated using W-NOMINATE Roll Call Analysis Software for R	First Dimension Coordinate
<i>Class</i>	<i>2004 National Annenberg Election Study</i> . Question cwa04. Percentage of each income group calculated using Census data (2000)	Low-income: below \$35,000 Middle Income: \$35,000-\$75,000 High-Income: above \$75,000
<i>Constituency Conservatism</i>	<i>2004 National Annenberg Election Study</i> . Question Cma06.	Generally speaking, would you describe your political views as very conservative, conservative, moderate, liberal, or very liberal? (Recoded to match DW-NOMINATE scale and to center at 0). 2 Very conservative 1 Conservative 0 Moderate -1 Liberal -2 Very liberal
<i>Percent Black</i>	<i>US Census (2000)</i>	Percent African-American by state

Appendix B

Table 1b. Summary statistics for state Constituency Opinion

<i>State Constituency Opinion by Class</i>	<i>Mean</i>	<i>Standard Deviation</i>	<i>Min</i>	<i>Max</i>
Lower	.129	.16	-.27	.56
Middle	.239	.22	-.26	.67
Upper	.222	.22	-.19	.79
State Mean	.199	.16	-.06	.51

Table 2b. Summary statistics for Legislator Ideology (DW-NOMINATE)

<i>Congress</i>	<i>Years</i>	<i>Partisan Control</i>	<i>Mean</i>	<i>Standard Deviation</i>	<i>Min</i>	<i>Max</i>
107 th	2001-2003	Split	.001	.42	-.768	.784
108 th	2003-2005	Republican	.01	.43	-.55	.697
109 th	2005-2007	Republican	.04	.46	-.55	.907
110 th	2007-2009	Democrat	.03	.44	-.641	.907
111 th	2009-2011	Democrat	-.04	.44	-.641	.907

Table 3b. Correlations between Constituency Opinion Measures

	Lower	Middle	Upper
Lower	1	-	-
Middle	.56	1	
Upper	.63	.79	1

Table 4b. Tests of equality between coefficients

Congress	Test	P-value	Test	P-value
107 th	Lower=Upper	.04		
	Lower=Middle	.29		
	Middle=Upper	.29	GOP*Upper= GOP*Lower	.21
108 th	Lower=Upper	.01		
	Lower=Middle	.22		
	Middle=Upper	.23	GOP*Upper= GOP*Lower	.72
109 th	Lower=Upper	.01		
	Lower=Middle	.09		
	Middle=Upper	.36	GOP*Upper= GOP*Lower	.84
110 th	Lower=Upper	.01		
	Lower=Middle	.02		
	Middle=Upper	.64	GOP*Upper= GOP*Lower	.38
111 th	Lower=Upper	.04		
	Lower=Middle	.00		
	Middle=Upper	.71	GOP*Upper= GOP*Lower	.77

p values less than .10 indicate coefficients significantly different from each other

Table 5b. Responsiveness of Senators to Constituency Opinion (107th-111th Congresses). Ordinary least squares regression coefficients (with standard errors in parentheses) for Poole-Rosenthal W-Nominate scores.

	107 th Congress		108 th Congress		109 th Congress		110 th Congress		111 th Congress	
Constant	-0.306*** (0.110)	-0.749*** (0.0431)	-0.227 (0.137)	-0.784*** (0.0405)	-0.213* (0.108)	-0.697*** (0.0451)	-0.208* (0.121)	-0.695*** (0.0447)	-0.585*** (0.0856)	-0.849*** (0.0358)
Low-Income Constituency Opinion	11.05* (5.941)	0.512 (2.205)	4.864 (8.384)	0.512 (2.038)	6.420 (6.786)	1.221 (1.794)	7.645 (6.915)	1.563 (2.308)	5.410 (6.559)	0.687 (2.334)
Middle-Income Constituency Opinion	0.213 (1.749)	0.764 (0.472)	-1.865 (2.056)	0.280 (0.603)	-1.033 (1.621)	1.049*** (0.384)	-0.626 (1.767)	1.003** (0.427)	-0.338 (1.663)	0.746 (0.505)
Upper-Income Constituency Opinion	5.843 (3.797)	2.834* (1.634)	12.13*** (4.166)	3.380* (1.708)	12.38*** (3.920)	1.545 (1.170)	10.81** (4.032)	1.676 (1.151)	11.02*** (4.105)	2.033 (1.353)
Percent Black (x100)		-.00490 (.282)		-.147 (.284)		-.121 (.283)		-.169 (.291)		-.242 (.269)
GOP		1.220*** (0.0507)		1.424*** (0.0594)		1.301*** (0.0531)		1.299*** (0.0571)		1.174*** (0.0576)
Observations	97	97	96	96	97	97	97	97	103	103
R ²	0.185	0.907	0.175	0.932	0.270	0.928	0.252	0.930	0.280	0.920

Standard errors in parentheses (clustered by state) * p<.10, ** p<.05, *** p<.01. Two-tailed tests

Table 5b. W-NOMINATE estimates for the 107th Senate (before and after Jeffords party switch)

107 th Congress	W-NOMINATE mean	Std. Dev.	Min	Max
Before Jeffords Switch	.148	.61	-.946	.973
After Jeffords Switch	-.038	.68	-.998	.952
Difference	-.186 t=16.6 (p < .001)			

Table 6b. Non-Freshmen Senator Responsiveness to Constituency Opinion (107th Congress). Ordinary least squares regression coefficients (with standard errors in parentheses) for Poole-Rosenthal W-Nominate scores (before and after Jeffords' party switch).

	Before Jeffords Switch			After Jeffords Switch		
Constant	-0.119 (0.189)	-0.432*** (0.0744)	-0.472*** (0.0715)	-0.372* (0.206)	-0.720*** (0.0612)	-0.742*** (0.0647)
Low Constituency Opinion	1.095 (2.835)	-1.113 (1.016)	-0.962 (1.066)	1.514 (3.150)	-0.0815 (1.141)	0.206 (1.405)
Middle Constituency Opinion	-0.669 (0.904)	0.354 (0.324)	0.539 (0.403)	-0.636 (1.015)	-0.0391 (0.483)	-0.0154 (0.634)
Upper Constituency Opinion	5.910*** (1.368)	1.868** (0.741)	2.222** (0.902)	6.613*** (1.703)	2.193*** (0.571)	2.232*** (0.713)
GOP		1.049*** (0.0591)	1.153*** (0.0864)		1.186*** (0.0569)	1.213*** (0.102)
GOP* Low Constituency Opinion			-0.172 (0.265)			-0.170 (0.284)
GOP* Middle Constituency Opinion			-0.305 (0.296)			-0.162 (0.370)
GOP*Upper Constituency Opinion			-0.00786 (0.318)			0.175 (0.355)
Observations	86	86	84	86	86	84
R ²	0.221	0.888	0.893	0.236	0.903	0.904

Standard errors in parentheses (clustered by state) * p<.10, ** p<.05, *** p<.01 Two-tailed tests.